

Signal plot

~~* I select the criterion.~~

- ① Statistics
- ② Regression wizard
- ③ ~~Stymoidal~~ parameter
- ④ Logistic parameter

- 1) IgG 1mg/ml 50ul 1hr
- 2) Block 200ul 1% BSA
- 3) Enz anti-IgG 50ul
- Substrate 50ul

IgG (4g dilution)

1:10 1:10 1:100 1:100 1:500 1:500 1:1000 1:1000

(ml)
1 ~ 1000 ml
0.1 ~ 100
0.01 ~ 10
0.005 + 5ml
12 (4.975)

	1	2	3	4	5	6	7	8	9	10	11	12
A	Block	IgG	1:10	1:100	1:100							1:1000
B		1:10	1:10									"
C		1:10	1:10									1:1000
D		1:10	1:10									"
E		1:10										1:4000
F		1:10	✓	✓	✓	✓	✓	✓	✓			"
G												2ml + 2ml
H												0.1% BSA-TBS

12x 0.05ml

(1ml) PBS

0.2ml 1.8ml
0.1ml + 0.9ml PBS

1:10 1ml 0.2ml + 0.8ml

1:100 1ml 0.2ml + 0.8ml

1:500 1ml 0.2ml + 0.8ml

1:1000 1ml 0.1ml (100) + 0.9ml

0.9ml

1ml = 1000ul

0.2ml = 200ul

	1	2	3	4	5	6	7	8	9	10	11	12
A	3 ₁ ₁₀₀											
B												
C												
D												
E												
F												
G												
H												

- enz + substrate = product
- ① Antigen — 1 hr to even out in bicarbonate buffer of H₂O (sticky)
 - ② Wash & add blocking reagent
1% BSA in PBS (phosphate buffered saline)
↳ 1 hr wait
 - ③ Add Antibody (human serum)
↳ 1 hr wait
 - ④ Wash
 - ⑤ Add indirect enzyme conjugated Ab
↳ 1 hr wait
 - ⑥ Wash → ⑦ Add substrate

Ag { 1:100 (bicarbonate) 20 μ l + 2ml
 1:300 (") 200 μ l + 0.8 ml
 1:1000 (") 700 μ l of (1:100) + 1.8 ml bicarbonate
 1:2000 (") 0.05 ml (50 μ l of 1:100) + 1.0 ml bicarbonate

human IgG antibody

	1	2	3	4	5	6	7	8	9	10	11	12	
		1:100	1:100	1:500	1:500	1:1000	1:1000	1:2000	1:2000				
A	Blank												1:100
B	Ag												
C													1:2000
D													
E													1:4000
F													1:2000
G							NOT H						NOT H
H													1:4000

Ag X 1:100 \rightarrow 1.1 x 0.0

0.01 \rightarrow 1 ml
 20 μ l + 2 ml

12 x 0.05 ml = 0.60 ml

* 1:500 1:5 dil = 1:500 0.1 ml v 0.4
 0.02 ml v 0.8

1:1000 diln 0.1 ml + 0.9 ml (0.2 ml v 1.8)

1:2000 diln \rightarrow 1:20 diln 1 \rightarrow 20 or

0.172.0

0.1 \rightarrow 2.0 ml

0.01 \rightarrow 1 ml


0.05 \rightarrow 1.0 ml
 (1:20)

12
 0.05
 0.60

12
 1.0
 0.60
 0.05
 1.0

①

ELISA : basic concept.

Ag (thyroglobulin)		Auto Ab
	Block + Pt's Serum (1:50 dilution (1% BSA + Auto Ab to serum albumin) thyroglobulin) Ig (thyroglobulin) (Ag)	{ 1ml → 50ml 0.1ml → 5ml 0.01ml → 0.5ml (10ul → 500ul)

(goat anti human IgG:
 AP: Alkaline
 phosphatase
 (human))

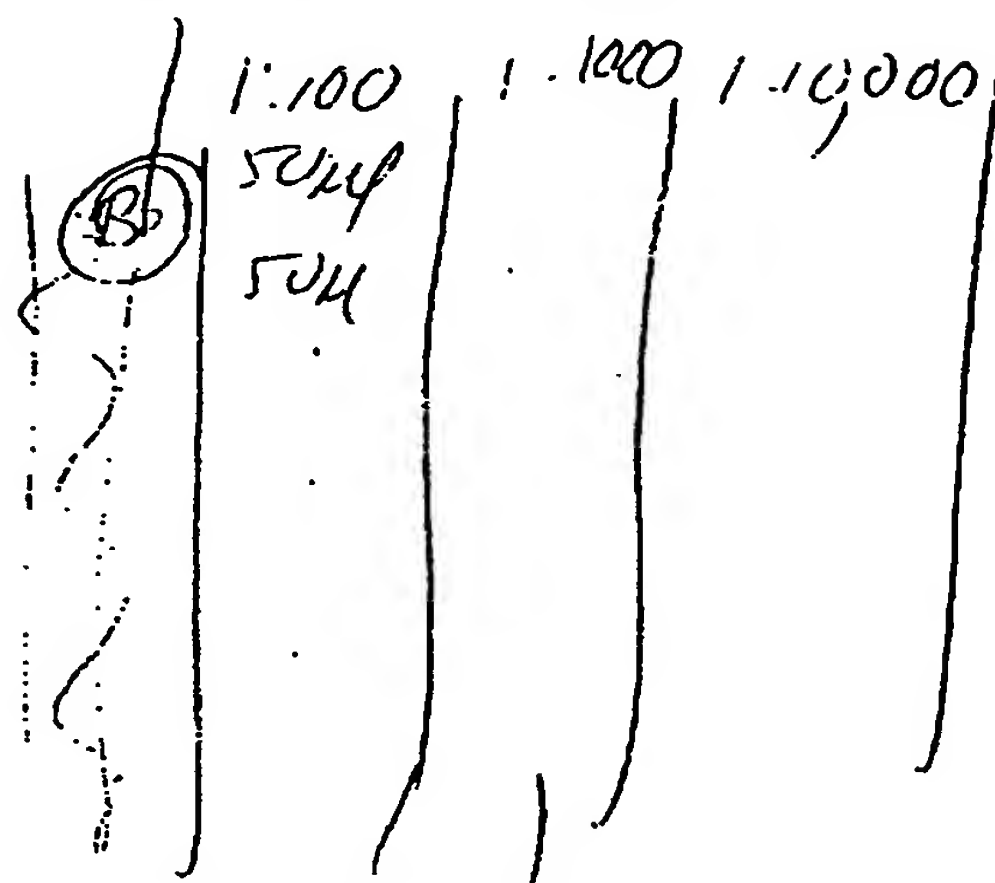
(2)

~~IgG~~100 μ l in PBS

1: 100

1: 1000

1: 10000

Bicarb 50 μ l

IgG
ALK phosph anti human
IgG
substr

Bicarbonate buffer.

Leave on 1 hr at RT
Wash 4x in PBS-Tween 20^{0.2%} 200 μ l
Block with 1% BSA for 1 hr (200 μ l)
Dump

Add anti-AP. anti-human IgG (50 μ l) for 1 hr
Wash 4x in PBS-Tween 20^{0.2%} 200 μ l
Add substrate (50 μ l) 30 min 37°C
Add stopping reagent (optional)
Read OD.

vol: 199 μ l PBS

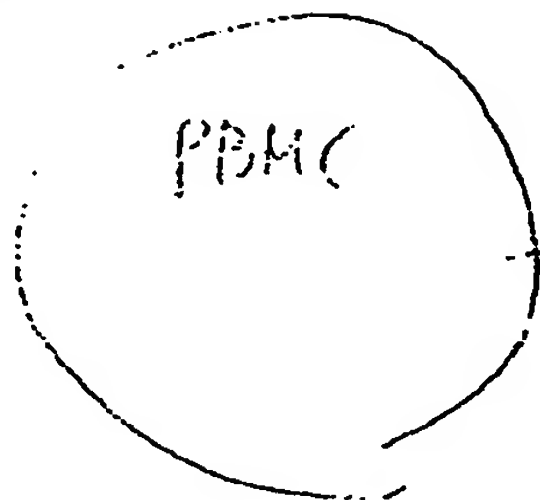
- ① anti - CD Ab () mg/ml
→ dilute 1:200 in PBS [No BSA, No Serum],
place 30 μ l in each well for stimulation.
- ② Incubate 1 hr at 37°C or
Overnight at 4°C (refrigerator)
- ③ Wash cells 2 x with 200 μ l PBS - tap out on
paper towel (should be sterile)
- ④ * No stim cells at least 1 away from stim
- ⑤ 200,000 cells/well in 200 μ l
(= 1×10^6 /ml)
- ⑥ for flow, centrifuge in regular tubes, put
supernatant into eppendorf.
- ⑦ collect S/N at 24 hrs, centrifuge in microfuge
and place in a fresh tube
- ⑧ Assay by ELISA immediately or
freeze S/N $\leq -20^\circ$ C

if multiple ELISA; Aliquot S/N.

— Read ELISA protocol ahead of time
How much sample do you need?

IL-10 1:10 → 100 μ l

Do NOT use BIOSurce



Stim
Anti CP3

IL-2 ↓ (IFN γ) Th1
ZL-10 ↑ (L-arginine)

10-12 women
 10-12 women

anti CP,
10 ug/ml

NCDA's : 2 mg/ml

in PES (NO BSA
NO SERUM)

- ① dilute (1:200), place 30 μ l in each well for stimulation
- ② incubate (1 hr at 37°C or overnight at 4°C (refrig.) (sterile))
- ③ wash wells 2x with 200 μ l PBS - tap out on paper towel.
- ④ 200,000 cells/well in 200 μ l \rightarrow 4 hr incubation (37°C CO₂)
 $= 1 \times 10^6 / \text{ml}$
- ⑤a for flow, c. fuse in regular tubes, put S/N into eppendorf
- ⑤ collect S/N at 24 hrs, centrifuge in microfuge and place in a fresh tube.
 \rightarrow collect the supernatant in Eppendorf pipette
- ⑥ assay by ELISA immediately or
 freeze S/N $\leq -20^\circ\text{C}$
 if multiple ELISAs, aliquot S/N

- read ELISA protocol ahead of time
How much SAMPLE DO YOU NEED?

01-10-10

Coulter Epics (Turn On)

① Computer Power On → (wait 20 min)

② 데 실행하기 (가운데 box) - orange line 지우기
 waste box check - 1/2 이상이면 dump
 2 white bottle - dry 실행
 2 transparent bottle - 1/3 이상 실행
 • Error 메시지 → 기각

③ Panel → select → start up click & okay click

④ 데 실행하기 Run box green blank 지우기
 open the door (문 열기) (drawn)
 → Is of fluid 지우기
 button 2-3번 누르기 bubble 지우기 check

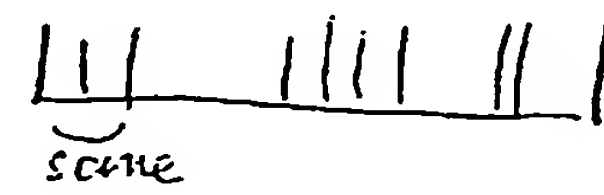
⑤ Error Message - click
 clear Error - click

⑥ Carrossal of 3ml tube

- ① Water 1 ml 3ml
- ② F-check : 10 drop
- ③ F-set : 10 drop

⑦ 데 실행하기 Run box initialization orange line 지우기

⑧ Insert tube 실행하기
 okay click → 5-7.5 wait

⑨ Flow-check 실행 :  HPCV = CV
 Flow-Set " MnIX = Mean CH
 MnX = Peak CH Copy 3/5

⑩ Protocol → select.

(FOR or LIST)

Am or Listmode
region - create
color click
↓

(related to the file)

File -

↓

FOX File

box to region from the file

region -

(if mouse button is not click → it click 0%)

↓

FOX File

D:\of drive on platform

C:\XL\OFF\OFF.DOX

(the protocol Data for the)

Listmode

Runtime
protocol

→ New protocol/panel

Shutdown:
① water
② ~~water~~ bleach
③ water
④ water
} about 1ml

Panel
→ select
→ shut down

→ Run

(Manual clean)
put the

water 8-10 min
(타이머 8-10분)

Run button → green → push button
→ it will be blinking

black tube

2X

(타이머 2분)

in manual tab

open the door

(타이머 1분 10초 12분 10초)

green + blinking

→ take out fast tube

→ black tube 10분

→ 1/2 black tube 10분

→ test tube 1/2 10분

Auto mode procedure
put 2 tube

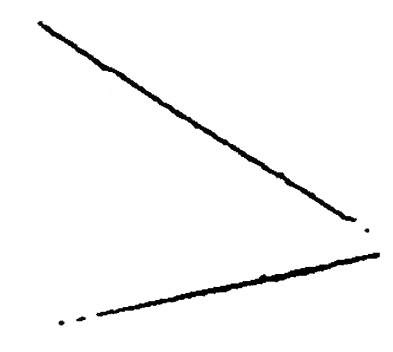
water

①. ②

carousel 10분

→
☐
☒ Auto
☐
☒ Decrease

중지하기



CD 45 FFE- / CD14 PE

CD3 / CD4

CD3 / CD8

CD5 / CD19

CD3 / IL2R

CD56 / CD16

Cytochrome

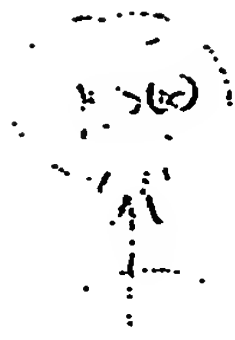
11-1

11-2

11-3

↓

11-20



Target

AK: E. H. 207

50:1

50X 100,000 target

100,000 target : 50:1

50X 100,000 target

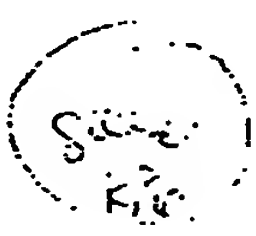
5X 10⁶

25X 100,000

2.5X 10⁶

Ex. 100,000

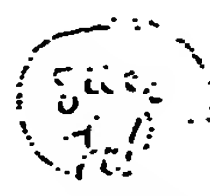
100,000



1000

400

Ex. 100,000



1500

100

10⁶ / 2

E.T

50:1

10⁶ / 6

2 hrs



after

Neonatal

Killing

E.T

25:1

5/6



E.T

10:1

5¹⁰ / 2



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